

BABIY, Ye.; ZYUBIN, S.; ANTYUKHOV, A.; KAMCHATOV, K.; DOLGOVA, L.; KASTOR-
NOV, M., mekhanik; GOL'TSEV, M.; KUZ'MIN, I., mekhanik; PAVLOV, N.,
mashinist kombayna; SMETANKIN, P., mashinist kombayna; SAFONOV, M.,
mashinist kombayna; KOZLOV, N., brigadir gornorabochikh; BUYAK, I.,
brigadir gornorabochikh; SOLDATOV, N., brigadir gornorabochikh.

Not into the records but into practice. Sov.shakht. 12 no.12:17-
18 D '63. (MIRA 17:3)

1. Shakhtoupravleniye No.3-25 tresta Donskoyugol' kombinata Tula-
ugol'. 2. Nachal'nik shakhtoupravleniya No.3-25 tresta Donskoyugol'
kombinata Tulaugol' (for Babiy). 3. Sekretar'partorganizatsii shakh-
toupravleniya No.3-25 tresta Donskoyugol' kombinata Tulaugol' (for
Zyubin). 4. Glavnyy inzh. shakhtoupravleniya No.3-25 tresta Donskoy-
ugol' kombinata Tulaugol' (for Kamchatov). 5. Sekretar' komsomol'-
skoy organizatsii shakhtoupravleniya No.3-25 tresta Donskoyugol'
kombinata Tulaugol' (for Dolgova).

KUZ'MIN, I.A.; FAL'K, V.N.

Analysis of the reliability of logic nets with operation
independent with respect to time. Trudy MEI no.53:133-140
'64. (MIRA 17:6)

USSR / Cultivated Plants. Fruits, Berries.

M-7

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 53747

Author : Kuz'min, I. A.

Inst : Not given

Title : Plum Tree in Southern Bashkiria

Orig Pub : Sad i ogorod, 1957, No 6, 48-49

Abstract : The plum variety Opata in the Kugarchin rayon is distinguished by its winter resistance, early ripening and yielding capacity. The variety Yellow Khopta hibernates well.

Card 1/1

KUZ'MIN, I.A.

Effectiveness of pollinizers in cutover areas of spruce-whortleberry
forests. Trudy Kar. fil. AN SSSR no.25:59-66 '61. (MIRA 14:9)
(Fertilisation of plants) (Spruce)

LYUBIMOV, N.N., prof., doktor ekon. nauk; PLETNEV, E.P., doktor ekon. nauk; SERGEYEV, S.D., dots., kand. ekon. nauk; MEN'SHIKOV, S.M., doktor ekon. nauk; BUZYKIN, Yu.I., kand.ekon.nauk; DYUMULEN, I.I., dots., kand.ekon.nauk; IKONNIKOV, I.S., kand.ekon.nauk; KUZ'MIN, I.A., dots., kand.ekon.nauk; NESTEROV, M.V.; POPOV, A.N., dots., kand.ekon.nauk; SOLOV'YEV, A.A., kand.ekon.nauk; STEPANOV, G.P., dots., kand.ekon.nauk; SHCHETININ, V.D., dots. kand. ekon. nauk; MOGILEVCHIK, A.Ye., red.; SHLENSKAYA, V.A., red.

[Modern international economic relations] Sovremennye mezhdunarodnye ekonomicheskie otnosheniia. Pod red. N.N.Liubimova. Moskva, Izd-vo "Mezhdunarodnye otnosheniia," 1964. 583 p.
(MIRA 17:5)

1. Moscow. Institut mezhdunarodnykh otnosheniy. 2. Predsedatel' Prezidiuma Vsesoyuznoy trgovoy palaty (for Nesterov).

AUTHOR: Kuz'min, I.A.

130-7-2/24

TITLE: Blast-Furnace Operation at Elevated Pressure. (Rabota domennykh pechey na povyshennom davlenii gaza)

PERIODICAL: Metallurg, 1957, Nr 7, pp. 3 - 5 (USSR)

ABSTRACT: The manager of the blast-furnace plant at the Cherepovets works gives an account of the improvements which have been achieved in operation by the use of high top pressure, self-fluxing sinter and better organizational methods. The useful volumes of the two furnaces are 1007 and 1033 m³ and they are constructed for operation with up to 1.5 atm. gauge top pressure. The coefficient of utilization has now been improved to 0.73-0.74. The data given refer mainly to No.1 furnace which is now working at 1.15 atm. gauge, but which will be operated at the limit as soon as a new charging mechanism and clay gun have been fitted. The main operating data are tabulated for periods in which different top pressures (0.13, 0.34, 0.9 and 1.0 atm gauge) were used: a steady increase of 0.014 tons of coke consumed daily per m³ of useful volume is seen to result from each 0.1 atm increase in top pressure. Graphs of top-gas pressure, coefficient of utilization, dust output per ton pig iron, coke rate, slag

Card 1/2

130-7-2/24

Blast-Furnace Operation at Elevated Pressure.

volume and blast temperature against data for 1956 and two months of 1957 are shown for foundry and steel-making pig iron production. Cherepovets sinter is very fine, with only 15% of over 25 mm and 70% of 5-25 mm lumps. The author considers the normal drum test for sinter quality unsatisfactory and discusses how the sinter could be improved.

ASSOCIATION: Cherepovets Metallurgical Works. (Cherepovetskiy Metallurgicheskiy Zavod.

AVAILABLE: Library of Congress.

Card 2/2

SOV/133-58-11-2/25

AUTHORS: Levin, L.Ya., Kuz'min, I.A., Kaylov, V.D. and Shur, A.B.
TITLE: An Experience in the Operation of a Blast Furnace with a
High Top Pressure of 1.5 atm (Opyt raboty domennykh pechey
s davleniyem na koloshnike 1.5 atm)
PERIODICAL: Stal', 1958, Nr 11, 964 - 968 (USSR)
ABSTRACT: The operation of Nrs 1 and 2 furnaces in the Cherepovets
Works under high top pressure varying up to 1.5 atm is
described. Furnaces operated on a 100% sinter burden of
a basicity $\text{CaO/SiO}_2 = 1.13 - 1.15$ producing foundry and
basic iron. Main operational indices are assembled in
Table 1 and mean monthly results for both furnaces in
Table 2. It is concluded that with increasing top pressure
by each 0.1 atm (within a range of 1.0 - 1.5 atm), the
output of furnaces increases on average by 1.9%. This
increase in the output is due not only to increasing driving
rate but also due to a decrease in the coke rate. The
main factor which permitted decreasing the coke rate was

Card 1/2

SOV/133-58-11-2/25

An Experience in the Operation of a Blast Furnace with a High Top Pressure of 1.5 atm

an increase in the blast temperature to 950 - 1 000 °C.
The latter was possible due to an increase in the top pressure. There are 1 figure, 2 tables and 2 Soviet references.

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod
(Cherepovets Metallurgical Works)

Card 2/2

GOL'MSHTOX, Ya.M.; KUZ'MIN, I.A.; LEVIN, L.Ya.; RAMM, A.N.; YAKUBTSINER, N.M.

Three years of blast furnace operation at the Cherepovets Metallurgical
Plant. Trudy LPI no.212:7-23 '60. (MIRA 13:12)
(Cherepovets--Blast furnaces)

ROSSINSKIY, K.I., kand.tekhn.nauk; KUZ'MIN, I.A., kand.tekhn.nauk

Deformations in the Volga River channel at the construction sites for cofferdams of the Kuybyshev and Stalingrad Hydroelectric Power Stations. Trudy Gidroproekta no.1:30-49 '58.
(MIRA 11:9)
(Volga River--Hydraulic engineering) (Cofferdams)

KARAULOV, B.F., inzh.; ROSSINSKIY, K.I., kand.tekhn.nauk; KUZ'MIN, I.A.,
kand.tekhn.nauk

Procedural specifications for designing energy dissipators and
reinforcements in the tailrace of spillway dams built on nonrocky
soils. Trudy Gidroproekta no.1:117-151 '58. (MIRA 11:9)
(Dams)

KHALTURIN, A.D., inzh.; KUZ'MIN, I.A., kand.tekhn.nauk

Use of rigid models in studying deformations of river channels.
Trudy Gidroproekta 2:37-56 '59. (MIRA 13:7)

1. Nauchno-issledovatel'skiy sektor Vsesoyuznogo proyektno-
izyskatel'skogo i nauchno-issledovatel'skogo instituta "Gidroproyekt"
im. S.Ya.Zhuk.
(Hydraulic models) (Erosion)

FEDOROV, L.T., kand.tekhn.nauk; LEONT'YEVSKIY, B.B.; GIL'DENBLAT, Ya.D.,
kand.tekhn.nauk; KORENISTOV, D.V.; ROSSINSKIY, K.I., kand.tekhn.
nauk; KUZ'MIN, I.A., kand.tekhn.nauk; KONDRATSKAYA, A.A., inzh.;
NISAR-MUKHAMEDOVA, G.N., inzh.; PANOVA, G.M., inzh.; ROZHDESTVENSKIY,
G.L., inzh.; SEMIKOLENOV, A.S., inzh.; TSAREVSKIY, S.V., inzh.;
ZHUKOVA, M.F., inzh.; GRISHIN, M.M., retsenzent; KRITSKIY, S.N.,
doktor tekhn.nauk, red.; MENKEL', M.F., doktor tekhn.nauk, red.;
GALAKTIONOV, V.D., kand.geol.-min.nauk, red.; ZAVALISHIN, I.S., inzh.,
red.; MALYSHEV, N.A., inzh., red.; MIKHAYLOV, A.V., doktor tekhn.
nauk, red.; PETROV, G.D., inzh., red.; RAPOPORT, Ya.D., red.; RUSSO,
G.A., kand.tekhn.nauk, glavnyy red.; SEVAST'YANOV, V.I., inzh., red.;
TITOV, S.V., inzh., red.; TISTROVA, O.N., red.; LARIONOV, G.Ye.,
tekhn.red.

[Hydrology and water economy of the Volga-Don] Gidrologiya i vodnoe
knoziaistvo Volgo-Dona. Pod red. S.N.Kritskogo i M.F.Menkalia.
Moskva, Gos.energ.izd-vo, 1960. 146 p. (MIRA 13:11)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledo-
vatel'skiy institut "Gidroproyekt" imeni S.Ya.Zhuk. 2. Deystvitel'-
nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin).
(Don River--Water resources development)

KUZ'MIN, I.A., kand.tekhn.nauk; TERENT'YEV, L.I., inzh.

Regulation of the Volga-Akhtuba Canal by self-erosion.
Trudy Gidroproekta no.4:255-265 '60. (MIRA 15:2)
(Volga-Akhtuba Canal--Regulation)

BOMBCHINSKIY, V.P.; VTOROV, N.A.; DUNDUKOV, M.D.; YNGOROV, S.A., doktor tekhn.nauk, prof.; YERMOLOV, A.I.; ZAVORUYEV, V.P.; KALININ, V.V.; KACHEROVSKIY, N.V.; KUZNETSOVA, A.K.; KUZ'MIN, I.A., kand.tekhn.nauk; MEDVEDEV, V.M., kand.tekhn.nauk; MIKULOVICH, B.F.; MIKHAYLOV, V.V., kand.tekhn.nauk; PETRASHEN', R.N.; RRYZIN, Ye.S.; SINYAVSKAYA, V.M.; KHALTURIN, A.D.; SHCHERBINA, I.N., kand.tekhn.nauk; SEVAST'YANOV, V.I., red.; KARAULOV, B.F., retsenzent; LOVETSKIY, Ye.S., retsenzent; MIKHAYLOV, A.V., doktor tekhn.nauk, retsenzent; NATANSON, A.V., retsenzent; SOKOL'SKIY, M.M., retsenzent; STANKEVICH, V.I., retsenzent; FREYGOFER, Ye.F., retsenzent; GOTMAN, T.P., red.; VORONIN, K.P., tekhn.red.

[Work of the All-Union Scientific Research Institute for the Study and Design of Hydraulic Structures] Nauchno-issledovatel'skie raboty Gidroproekta. Pod obshchei red. V.I.Sevast'ianova. Moskva, Gos.energ.izd-vo, 1961. 214 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut Gidroproyekt imeni S.Ya.Zhuk. Nauchno-issledovatel'skiy sektor.

(Hydraulic engineering--Research)

L 1958-66 EWT(m)/EWP(w)/EWP(j)/T/EWP(t)/EWP(b) JD/RM

ACCESSION NR: AP5022035

UR/0286/65/000/014/0104/0104
621.432.2

AUTHOR: Kuz'min, I. A.

TITLE: Method of increasing the wear resistance of machine pistons. Class 47,
No. 173083

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 104

TOPIC TAGS: wear resistance, engine piston, fluorocarbon plastic, plastic coating,
self lubricating material

ABSTRACT: An Author Certificate has been issued for a method of increasing the wear resistance of pistons of machines, e.g., internal combustion engines and compressors, by coating the working surface of the piston with plastic, e.g., fluorocarbon plastic. To increase service life, the piston working surface is mechanically cleaned free of oils, greases, and oxide films, and thinly coated with the plastic. The coating is accomplished by immersing the piston in a suspension of, e.g., colloidal fluorocarbon plastic, drying, and heat treatment. The coating is applied to a thickness of 0.05—0.1 mm in 0.01 mm increments, all operations being repeated for each increment. Heat treatment is carried out at 275—285°C for 30—35 min, heating being alternated with cooling to 15—20°C. [SM]

Card 1/2

L 1958-66

ACCESSION NR: AP5022035

ASSOCIATION: none

SUBMITTED: 24Dec62

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: PR, MT

ATD PRESS: 4058

Card 2/2

BERMAN, D.Y.; KUK'LIN, I.P.

Asian snipe *Capella stenura* Bp. in Tuva. Ornithologia no.7:209-216
'65. (MIRA 18:10)

MAKAROV, S.I.; KUZ'MIN, I.G.

Automatic coke sampler. Sbor.rats.predl.vnedr.v proizv. no.5:43-44
'60. (MIRA 14:8)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Coke--Testing)

KUZ'MIN, I.G.

[The fattening of cattle] Nagul skota. [Saratov] Saratovskoe obl.
gos. izd-vo, 1952. 67 p. (MLRA 9:9)
(Cattle--Feeding and feeding stuffs)

1. KUZ'MIN, I.G.
2. USSR (600)
4. Cattle
7. Raising and fattening steers on collective farms on the steppe regions of southeastern USSR, Sov. zootekh. 7 No.4, 1952. Yugo-Vostochnyy Institut Zgivotnovodstva.
9. Monthly List of Russian Accessions, Library of Congress, June 1952.UNCLASSIFIED.
1 Kormodobyvaniya

KUZ'MIN, I. G.

Cattle - Saratov Province

How cattle are pasture fattened on collective farms of Krasnyy Kut and Komsomol Districts (Saratov Province). Dost. sel'khoz. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

...ing, I.E.
Growing and fattening of cattle; experience of the Lenin kolkhoz Moscow, 1954. 47 p.
Izd-vo sel'khoz. lit-ry, 1954. 47 p.

KUZ'MIN, I.G., kand. sel'skokhozyaystvennykh nauk.

Rearing several calves with each nursing cow. Zhivotnovodstvo 20
no.2:62-67 P '58. (MIRA 11:1)

(Calves--Feeding and feeding stuffs)

KUZ'MIN, I.G., kand.sel'skokhozyaystvennykh nauk

Effectiveness of rearing several calves with each sucking dam. Zhi-
votnovodstvo 21 no.8:61-67 Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Yugo-
Vostoka.

(Calves--Feeding and feeds)

KUZ'MIN, I.G., kand.sel'skokhozyaystvennykh nauk

Raising calves with nurse cows as a way for economic use of
protein. Zhivotnovodstvo 23 no.7:43-45 JI '61. (MIRA 16:2)
(Calves---Feeding and feeds)

KUZ'MIN, Ivan Grigor'yevich, kand. sel'khoz. nauk; SOKOLOVA, G.S.,
red.; SHESHNEVA, E.A., tekhn. red.

[Raising calves with nurse cows] Vyrashchivanie teliat pod
korovami-kormilitsami. Moskva, Izd-vo M-va sel'khoz. RSFSR,
1963. 38 p. (MIRA 16:5)
(Calves--Feeding and feeds)

MIROSHNICHENKO, I.P., kand.tekhn.nauk; GABRILOV, M.N.; KUZ'MIN, I.I.

New type of medium-tonnage, combination dry cargo ship. Trudy
TSNIIMF 7 no.36:29-41 '61. (MIRA 15:3)
(Freighters)

Kuz'min, I. I.

40-22-2-12/17
AUTHORS: Grigor'yev, Ye. P., Zolotavin, A. V., Kuz'min, I. I.,
Pavlitskaya, Ye. D.

TITLE: On the Decay of Rh^{106} (O raspade Rh^{106})

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958,
Vol. 22, Nr 2, pp. 194 - 197 (USSR)

ABSTRACT: This is a lecture held at the VII All Union Consultative Conference on Nuclear Spectroscopy, which was devoted to the investigation of the radiation accompanying the radioactive transmutation of $Ru^{106} \rightarrow Rh^{106} \rightarrow Pd^{106}$ with the help of a β -spectrometer with double focusing. (Ref 1). In this apparatus the diaphragms near to the source were removed and the thickness of the others increased to from 8 - 9 mm. The inside of the apparatus, at the rim of the diaphragms nearest to the source, was coated with beryllium plates. The conversion lines, the complete β -spectrum and the spectrum of photo electrons were investigated.

Card 1/3 1) In the investigation of the continuous β -spectrum of Rh^{106} results were obtained, which do not correspond to the data

On the Decay of Rh¹⁰⁶

48-22-2-12/17

by Alburger (Ref 2) with respect to the composition of this spectrum (intensity components). Therefore control experiments were performed with the β -spectra of P³², As⁷⁶ and K⁴², which lead to the conclusion that the spectrometer accurately reproduces the form of the β -spectra up to 3 MeV, above this value, however, a distortion of the shape is possible. 2) The observation of internal conversion proved to be difficult, and it was only possible to measure the K and L conversion lines of the transition with an energy of 513 and 623 keV. In this case the data by Alburger correspond to the here obtained results, with the exception of the line L-623, which alone was treated in this paper. 3) The γ -spectrum of Rh¹⁰⁶ was in this investigation examined according to the photo electron spectrum with a cylindrically symmetric source. This investigation was pushed in two directions: a) The photo electrons of the γ -transitions with 513, 623 and 1052 keV were measured, and their respective intensity was determined. Pb, Bi and Th served as target here. b) The range from 100 - 400 keV was investigated under the assumption that according to the decay scheme, the transition with the energies 150, 220, 240, 345 and 390 keV should be determined. The experiment proved to be difficult. No photo peaks could be found in this range

Card 2/3

On the Decay of Rh¹⁰⁶

48-22-2-12/17

and the upper intensity limit of the possible γ -transitions was assumed to be $3 \cdot 10^{-3}$ of the intensity of γ -quanta with the energy of 513 keV. 4) The authors established discrepancies in the decay scheme by Alburger (between the intensity components of the β -spectrum and the relative intensities of the γ -transitions) that is to say for the type E 2. According to the here obtained results the coefficient of the intensity components of the transition conversion at 623 keV amounts to $(3,5 \pm 1) \cdot 10^{-3}$, which value also corresponds to the computation of E 2 ($2,85 \cdot 10^{-3}$) (Ref 3). There are 1 figure, 1 table, and 11 references, 5 of which are Soviet.

ASSOCIATION: Fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova
(Physics Institute, Leningrad State University imeni A. A. Zhdanov)

AVAILABLE: Library of Congress

Card 3/3 1. Ruthenium-Decay-Analysis

KUZ'MIN, Ivan Ivanovich; KARPOV, V.V., redaktor izdatel'stva; PUL'KINA,
Ye.A., tekhnicheskiy redaktor

[Gypsum and slag wall facings for stair wells] Oblitsovka lestnich-
nykh kletok gipsoshlakovymi plitami. Leningrad, Gos. izd-vo lit-ry
oo stroit. i arkhitekture, 1956. 29 p. (MLBA 9:9)
(Building materials)

30(5); 25(3)

PHASE I BOOK EXPLOITATION

SOV/1632

Kuz'min, Iosif Iosifovich

O gosudarstvennom plane razvitiya narodnogo khozyaystva SSSR na 1958 god. Zakon o gosudarstvennom plane razvitiya narodnogo khozyaystva SSSR na 1958 god (The State Plan for Development of the National Economy of the USSR in 1958. Decree on the State Plan for Development of the National Economy of the USSR in 1958) Moscow, Gospolizdat, 1957. 46 p.

No additional contributors mentioned.

PURPOSE: This pamphlet is intended for all Soviet citizens.

COVERAGE: The pamphlet presents a transcript of the speech by I.I. Kuz'min presented before the 9th Session of the Supreme Soviet of the USSR held on the 19th and 20th of December, 1957. The speech covers the State plan for development of the Soviet economy in 1958. It contains preliminary data on the fulfillment of the 1957 plan and also detailed information on the plans for development of Soviet industry, agriculture, transport, etc. in 1958. There are no references, and no personalities are mentioned.

Card 1/3

The State Plan (Cont.)

SOV/1632

TABLE OF CONTENTS:

Report on the State Plan for Development of the National Economy of the USSR in 1958. 19 December 1957	3
1. Preliminary data on fulfillment of the plan for 1957	4
2. Basic objectives of the State plan for development of the National economy of the USSR in 1958	10
Industry	13
Agriculture	20
Transport and communications	22
Problems of "capital construction"	23
Labor and manpower	25
Increasing the living standards of workers	27
Development of national economies of Soviet republics	30
Foreign economic relations of the USSR	40
Concluding Remarks Made Before the Session of the Council of the Union (Sovet Soyuza) on 20 December 1957	42

Card 2/3

The State Plan (Cont.)

SOV/1632

Concluding Remarks Made Before the Session of the Council of
Nationalities (Sovet Natsional'nostey) on 20 December 1957 45

Decree on the State Plan for Development of the National Economy
of the USSR in 1958 47

AVAILABLE: Library of Congress (HC 336.K9)

JG/sfm
6-26-59

Card 3/3

SOV/92-58-1-2/22

AUTHOR: Kuz'min, I. I., President of the Gosplan of USSR

TITLE: Our Problems in 1958 (Nashi zadachi na 1958 god)

PERIODICAL: Neftyanik, 1958, Nr 1, p 1 (USSR)

ABSTRACT: This report was submitted to the Supreme Soviet of the USSR, at its ninth session by I. I. Kuz'min, who is the Deputy-President of the Council of Ministers and President of the Gosplan of the USSR. The report states that the Plan for 1958 emphasizes the importance of the further development of petroleum and gas recovery because petroleum and gas are the most economical fuels, and because they are very important for the production of chemicals. At the same time it is planned to boost the overall refining capacity of the country and to construct new pipelines for the transportation of crude oil and its products. It is also planned to top 1957 petroleum production by 14 percent, petroleum refining by 12 percent, and gas production by 52 percent. To achieve this goal, it is proposed that investment be increased in this branch of industry by 30.5 percent over 1957. New processing units are to be put on stream at the refineries

Card 1/2

1. Petroleum industry 2. Pipes—Installation 3. Industrial equipment—Performance 4. Pictures

Our Problems in 1958

SOV/92-58-1-2/22

in Gor'kiy, Stalingrad, Perm, and Fergana. It is also proposed that construction work be started on large refineries in Krasnogorsk and Pavlodar, located in the East, and in Polotsk located in the Belorussian SSR.

ASSOCIATION: ~~Soviet~~ Ministrov SSSR i Gosplan SSSR (Council of Ministers of the USSR, and Gosplan of the USSR)

1. Petroleum industry 2. Petroleum—Recovery 3. Natural
gas—Recovery 4. Pipelines—Construction

Card 2/2

304/30-58-6-1/45

AUTHOR: Kuz'min, I. I., Deputy-President of the Cabinet Council of the USSR, President of the Gosplan, USSR

TITLE: New Chapter in the Development of Soviet Economy, as Well as the Tasks of Science (Novyy etap v razvitii sovetskoy ekonomiki i zadachi nauki)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 6, pp. 3 - 15 (USSR)

ABSTRACT: In 1946, the reduced consumption of fuel consisted for 80 % of coal and for 20 % of mineral oil. Natural gas is not mentioned at all in this connection. According to the new fuel balance the consumption of coal ought to be reduced to 37 % (instead of 80 %) and the consumption of mineral oil and gas ought to be increased to 63 % (instead of 20 %) within the next 15 years. Already in 1958, the capital investments in the mineral- and gas industry ought to be increased by more than 30 % in comparison with the year 1957. In the field of chemical industry, the development of the production of artificial and synthetic fibers, synthetic materials, synthetic rubber and rubber products, as well

Card 1/5

SOV/30-58-6-1/45

New Chapter in the Development of Soviet Economy, as Well as the Tasks of Science

as the dye industry ought to be promoted. By this it would be possible to effect important economies in wood, bricks, and cement. The Central Committee of the Party attaches great importance to the development of the industry of high-polymers. In the field of railroad transportation 80 to 85 % of the railroads ought to be equipped with electric and diesel engines until 1965 and until 1970 the steam engines ought to be eliminated completely by which the capacity of the railroads would be considerably increased and large quantities of both fuel and capital be saved. On this occasion, the author stresses that L. M. Kaganovich and V. M. Molotov who held this department for a long period, adhered to steam engines. Concerning the development of agriculture, great importance was attached to the utilization of newly won land and fallow lands in the Eastern regions by which more than 1 billion pud of cereals were additionally obtained per year. By this the specialization of the agricultural rayons was made possible. The reorganization of the MTS is considered to be the most important factor. The development of heavy industry is provided by preference in the economic plan for the years from 1959 to 1965, in which case Siberia, Kazakhstan

Card 2/ 5

SOV30-58-6-1/45

New Chapter in the Development of Soviet Economy, as Well as the Tasks of Science

and Central Asia (Srednaya Aziya) are especially concerned. A large mineral raw material basis was created on the basis of the carried out prospecting. The Lower Plants GES Bratskoye and Krasnoyarsk are put in operation. Rich oil wells which exceed the output of the Baku region by far, were found between the Volga and the Ural. The problem of fuel supply of the Ural industry still awaits solution. The close connection of the Gosplan USSR with the AS USSR, which was disturbed throughout some time, is at present re-established. Furthermore, the individual commissions and their directors are given:

- 1) N. N. Semenov, Member, Academy of Sciences, USSR, - Plastics, Synthetic Resins and Synthetic Fibers.
- 2) A. V. Topchiyev, Member, Academy of Sciences, USSR, - Developmental Problems of Science.
- 3) I. A. Kairov, President of the Academy of Pedagogical Sciences of the RSFSR - Public Instruction and Instruction of Specialists.
- 4) A. I. Bakulev, President of the Academy of Medical Sciences of the USSR - Public Health.

Card 3/5

SOV/30-58-6-1/45

New Chapter in the Development of Soviet Economy, as Well as the Tasks of Science

5) P. P. Lobanov, President of the VASKhNIL - Agriculture.

To the planning works further contributed: the President of AS USSR, A. N. Nesmeyanov, the Members, Academy of Sciences, USSR, I. P. Bardin, I. I. Artobolevskiy, V. S. Nemchinov, S. I. Vol'fkovich, I. P. Gerasimov, and many others. The commission for the set-up of the fuel- and energy balance is under the supervision of the Corresponding Member, Academy of Sciences, USSR, M. A. Styrikovich; the following act as Members: the Corresponding Members L. M. Sapozhnikov and Z. F. Chukhanov, as well as the Doctors of Economical Sciences L. A. Melent'yev, A. Ye. Probst and others. The Commission for Machine Building is composed of the Members, Academy of Sciences, USSR, A. I. Artobolevskiy, A. I. Berg, V. M. Dikushin, S. A. Lebedev, as well as the Corresponding Member, Academy of Sciences, USSR, A. I. Tselikov and other scientists. The work carried out by the Member, Academy of Sciences, USSR, I. P. Bardin: "Iron-Ore Basis of the Metallurgical Industry of the USSR" was described as useful contribution to the Gosplan USSR. The Member, Academy of Sciences, USSR, I. V. Kurchatov directs the work of the Institute of Atomic Energy. Great importance is also attached to the organization of a great scientific center,

Card 4/5

SOV/30-58-6-1/45

New Chapter in the Development of Soviet Economy, as Well as the Tasks of Science

the Siberian Branch of AS USSR, where 12 new scientific research institutes and laboratories are to be built. Concluding, the great tasks of physics, computing technique, chemistry, biology, of the humanitarian and economical sciences are underlined. There is 1 Soviet reference.

1. Economic conditions--USSR 2. Industry--USSR 3. Scientific research--USSR

Card 5/5

KUZ'MIN, I. I.

AUTHOR: None Given

119-58-6-8/13

TITLE: All-Union Conference at the Kremlin (Vsesoyuznoye soveshchaniye v Kremle)

PERIODICAL: Priborostroyeniye, 1958, Nr 6, pp. 25-26 (USSR)

ABSTRACT: An All-Union Conference of technical engineers was held at the Kremlin from May 12 to May 16, 1958, at which such problems as the development of complex automatization, the automatization of manufacturing processes, and the increase of the production of devices for automatization were discussed. The head of the Gosplan I. I. Kuz'min, delivered a detailed report on the present stage of automatization as well as of plans for the future. A special department for automatization was established at the Gosplan and within the near future a scientific council will be formed for the automatization of manufacturing processes. The participants in this conference were engaged in lively discussions of a number of important problems. It was pointed out that the constructors and builders of new factories and institutes must more than ever before utilize the latest experience and

Card 1/2

All-Union Conference at the Kremlin

119-58-6-8/13

knowledge in their special fields in practice. In automatized working processes it has frequently not been taken into account that work connected with the feeder service must still often be carried out by hand. This state of affairs must immediately be remedied.

The construction and manufacture of electronic mathematical computers and of electronic control apparatus must be taken in hand immediately and carried out with greater speed and in an increased volume. - The information service concerning new apparatus for automatization must be intensified.

The Gosplan and the State Scientific Council of the USSR must devote a maximum of attention to the problem of establishing the highest possible degree of coordination among all branches of industry cooperating with one another.

1. Industrial plants—Automation
2. Construction—USSR
3. Control systems

Card 2/2

AUTHOR: Kuz'min, I. I., Deputy-President of SOV/30-58-7-2/49
the Council of Ministers of the USSR, President of the Gosplan
of the USSR

TITLE: On Problems Concerning the Development of Collective Mechan-
ization and Automation in the USSR (O zadachakh razvitiya
kompleksnoy mekhanizatsii i avtomatizatsii v SSSR)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 7 - 18 (USSR)

ABSTRACT: The author states that according to the rate of increase in
the productivity of work, the USSR occupies the first place
in the world. By this 51% of the total increase of the industrial
production were achieved in the years of the first 5 years' plan,
79% in the second 5 years' plan, 69% during the years of war and
in the fourth 5 years' plan and finally 68% in the fifth 5 years'
plan. Approximately 80% should be obtained in 1965, according
to the calculations of the Gosplan USSR. The continuing tech-
nical progress, the perfection of production planning and of
the technology of production, as well as the introduction of
collective mechanization and automation of the manufacturing

Card 1/5

On Problems Concerning the Development of Collective
Mechanization and Automation in the USSR

SOV/30-58-7-2/49

processes is described to be a principal condition for rapid increase of the productivity of work in the whole national economy. This is the main purport of Soviet economic and technical policy. In spite of many achievements in this field, it must not be overlooked that there is still a great deal of work to be done by hand. The coal industry, thermal power stations, machine building and the metalworking industry are mentioned in this connection. The automation of manufacture is described to be the principal task of the present. The possibility of a short-term amortization of the capital spent for automation is emphasized. Furthermore the following works which were successfully automated, are mentioned: The Sumgait -Works for synthetic alcohol, the Donets-Soda Works, the Yefremov-Works for the manufacture of synthetic rubber, the Ivanovo Kombinat for the manufacture of synthetic shoe soles. It was calculated that the automation of 12 blast furnaces at an expense of approximately 6 million Roubles makes it possible to obtain an increase in the output of cast iron which corresponds to the output of an additional blast furnace with a value of 100 million

Card 2/5

On Problems Concerning the Development of Collective
Mechanization and Automation in the USSR

SOV/30-58-7-2/49

Roubles. Successes were also achieved by automation in the Metallurgic Kombinat Magnitogorsk, the "Krasnaya Etna"-Works, the Kiyev Chain Factory, the second Moscow Watch Factory, the "Krasnyy Oktyabr' "-Works, as well as in the automobile- and tractor factories. 150 machine-tool assembly lines were manufactured for machine factories up to the beginning of 1958. Some enterprises manufactured approximately 200 of such automatic machine-tool assembly lines in their own plants by using the available machines. According to the Gosplan, 1400 automatic machine-tool assembly lines with from 12 to 14 thousand machines for the metalworking industry and more than 350 for the wood-working industry should be manufactured within the years from 1959 to 1965. Moreover, many of such assembly lines should be built by the factories themselves. New systems of automatic machining should also be created by using electronic machines for the control of manufacturing processes. A pronounced increase in the production of instruments for automation is planned. Furthermore still great prospects of automation are to be found

Card 3/5

On Problems Concerning the Development of Collective
Mechanization and Automation in the USSR

SOV/30-58-7-2/49

in coal industry, in railroad transportation and in the chemical industry. 39 new plants are to be constructed for the manufacture of instruments and apparatus and 17 already existing plants should be reorganized. It is noted, however, that these projects up to now were executed in an unsatisfactory manner. An improvement of the quality of the apparatus manufactured is also required. Technical conferences and exhibitions, as well as better technical information are recommended for generalizing the experience obtained by automation. Automatized model enterprises are to be established in various industrial branches in order to gain experience. A scientific and technical council for the mechanization and automation of the manufacturing processes and a sub-department for automation are to be created in the Gosplan. A central administration for automation of manufacturing processes which should also serve the Republics of the Soviet Union, was established in the system of the Ministry of Construction of the RSFSR. Concluding, the author stresses that both science and engineering are to serve the people in the Soviet Union. Mechanization and above all automation must be considered

Card 4/5

On Problems Concerning the Development of Collective
Mechanization and Automation in the USSR

SOV/30-58-7-2/49

as a means for increasing the productivity of work which should lead to a shortening of working hours and to an increase in the living standard of the population. For these reasons, there will be no unemployment under the conditions of socialism. There are 2 Soviet references.

Card 5/5

ACC NR: AP7011836

SOURCE CODE: UR/0367/66/004/006/1131/1133

AUTHOR: Baz', A. I. -- Baz, A. I.; Demin, V. F.; Kuz'min, I. I.

ORG: none

TITLE: Exact calculation of deuteron elastic scattering and the stripping reaction as a specific case of the three-body problem

SOURCE: Yadernaya fizika, v. 4, no. 6, 1966, 1131-1133

TOPIC TAGS: three body problem, elastic scattering, deuteron scattering

SUB CODE: 20

ABSTRACT: The elastic scattering of a deuteron and the stripping reaction in a rectangular field with one bound state (the 1s-level) have been calculated using the exact solution for a specific case of the three-body problem. The deuteron kinetic energy was chosen equal to 2.2 MeV. The obtained results are compared with those of approximation methods. The authors thank Yu. P. Orevkov for his continuous interest in carrying out the numerical computations. Orig. art. has: 2 figures, 1 formula and 2 tables. [Based on authors' Eng. Abst.] [JPRS: 40,423]

Card 1/1

KUZ'MIN, I.K., kapitan 1-go ranga

Reconnaissance in combat operations on the destruction of the
enemy's naval forces. Mor. sbor. 47 no.5:36-43 My '64.
(MIRA 18:6)

MITYUSHIN, N.G.; KUZ'MIN, I.L., starshiy master; YAKOVLEV, Yu.A., konstruktor

Automatic temperature regulators with semiconductor pickups. Tekst.
prom. 21 no.9:72 S '61. (MIRA 14:10)

1. Glavnyy inzh.zavoda Tekstil'mashpribor Upravleniya radiotekhnicheskoy promyshlennosti i priborostroyeniya Mosgorsovnarkhoza.
(Thermostat)

KUZ'MIN, I.M.

"The Effect of Fertilizer and Planting Time on the Yield of Winter Wheat in the Belorussian SSR." Cand Agr Sci, Inst of Socialized Agriculture, Acad Sci Belorussina SSR, Minsk, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

KUZ'MIN, I. N.

Mery predostorozhnosti pri kabel'nykh rabotakh (Precautions in cable work). Moskva, Sviazizdat, 1954. 20 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

ANDREYEV, Igor' Leonidovich; LUKOVKIN, Aleksandr Ivanovich; MAN'KO, Petr
Aleksseyevich; TIKHOMIROV, Aleksandr Anatol'yevich; KUZ'MIN, I.N.,
otv.(nauchnyy) red.; VLASOVA, Z.V., red.; ERASTOVA, N.V., tekhn.red.

[Protecting marine watertube boilers from corrosion] Zashchita
sudovykh vodotrubnykh kotlov ot korrozii. Leningrad, Gos. soizuznoe
izd-vo sudostroit. promyshl., 1958. 100 p. (MIRA 12:1)
(Corrosion and anticorrosives) (Boilers, Watertube)

KUZ'MIN, Ivan Nikolayevich; NOVIKOV, Yu.V., red.; SENCHILO, K.K., tekhn.
red.; GABERLAND, M.I., tekhn.red.

[Hygiene of work and safety rules for work on overhead communication lines and wire broadcasting lines] Gигиена труда i bezopasnost' raboty na vozdushnykh liniyakh aviatsii i radiofiziki.
Moskva, Gos.izd-vo med.lit-ry Medgiz, 1959. 124 p.

(MIRA 14:1)

(ELECTRIC LINES--SAFETY MEASURES)

KUZMIN, I.S.

Variation of the amount of water in shoots taken from different parts of the apple-tree crown under conditions prevailing in the orchard in winter. Biul. nauch.-tekh. inform. TSGL no.4:47-52 '57. (MIRA 12:1)
(Apple) (Plants--Transpiration)

KUZ'MIN, I. I.

Semiautomatic machine for milling face teeth. Mashinostroitel'
no. 4:10-11 Ap'64 (MIRA 17:7)

KUZ'MIN, I.S.

Producing daily 2,000 cubic meters of high-quality crushed stone.
Put' i put.khoz. 7 no.8:19 '63. (MIRA 16:9)

1. Nachal'nik otдела kar'yernogo khozyaystva sluzhby puti Zapadno-
Sibirskoy dorogi, Novosibirsk.
(Crushed stone industry)

KUZ'MIN, I.S.

Semiautomatic machine for milling front gear teeth. Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.12:40-41
'63. (MJRA 17:3)

LIVINSKIY, V.P.; KOVALENKO, A.V.; KUZ'MIN, I.S.

Equipment for welding girth joints on motor vehicle axle
 housings. Avtom. svar. 17 no.8:38 Ag '64.

(MIRA 17:11)

PAVLOV, S.S., starshiy leytenant meditsinskoy sluzhby; KUZ'MIN, I.T., pod-
polkovnik meditsinskoy sluzhby

New fast method for treating catgut. Voen.-med.zhur. no.9:88-89
S '59. (MIRA 13:1)
(SUTURES)

KUZ'MIN, I.V.; CHERNOBROVKIN, V.P.

Effect of vacuum and gases on the chemical composition and structure
of eutectic gray cast iron. Lit. proizv. no.5:34-35 My '62. (MIRA 16:3)
(Cast iron—Metallography) (Vacuum metallurgy)

KUZ'MIN, I.V.; CHERNOBROVKIN, V.P.; ANAN'IN, A.A.

Effect of conditions of melting on the formation of ferrite in
cast iron. Lit. proizv. no.6:28 Je '63. (MIRA 16:7)

(Melting) (Cast iron—Metallography)

KUZ'MIN, I.V.; CHERNOBROVKIN, V.P.; ANAN'IN, A.A.

Effect of individual gases on the structure of cast iron. Izv.
vys. ucheb. zav.; chern. met. 6 no.6:161-167 '63. (MIRA 16:8)

1. Ural'skiy filial AN SSSR.
(Gases in metals) (Cast iron--Analysis)

KUZ'MEN, I.V.; CHERNOBROVKIN, V.P.; ANAN'IN, A.A.

Influence of a vacuum on the structure of cast iron. Lit. proizv.
5352-32 My '64. (MIRA 18:3)

NEFEDOV, P.Ya.; CHERNOBROVKIN, V.P.; KATARIN, V.P.; ANAN'IN, A.A.;
BALBASHEV, V.K.; RYVKIN, I.Yu.; TSYNOVNIKOV, A.S.; KUZ'MIN, I.V.;
YAKOVLEV, S.Ye.; SHULAYEV, V.I.; MATSEVICH, S.I.; NARNITSKIY, A.P.;
BOKOV, O.K.; CHEREPANOV, V.Ye.

Coke briquets for cupola furnaces. Lit. proizv. no.3:6-7
Mr '65. (MIRA 18:6)

KUZ'MIN, K.A. inzhener.

Experience in operating contact systems in regions subject to
sleet storms. Vest.TSNII MPS no.3:56-57 H '56. (MLRA 10:1)
(Electric railroads--Cold weather conditions)

KUZ' MIN, K.G.

GOLOVACHEV, L.P., inzhener; PETROV, I.P., kandidat tekhnicheskikh nauk;
KUZ' MIN, K.G., inzhener.

Stressed reinforced multihollow floor panel with posttensioned
reinforcement. Stroil.pred.neft.prom. 1 no. 915 N. '56. (MIRA 10:1)
(Reinforced concrete construction)

GOLOVACHEV, L.P., inzhener; PETROV, I.P., kandidat tekhnicheskikh nauk;
KUZ'MIN, K.G., inzhener.

Prestressed hollow panels for floors with posttensioned
reinforcements. Stroi.pred.neft.prom. 1 no.10:4-7 D '56.
(MLRA 10:2)

(Prestressed concrete construction)

PHASE I BOOK EXPLOITATION

SOV/5068

Kuz'min, Konstantin Gavrilovich, and Irina Tikhonovna Antonova.

Formy dlya izgotovleniya sbornykh betonnykh i zhelezobetonnykh konstruktsey
(Forms for the Production of Sectional-Concrete and Reinforced-Concrete
Structures) Moscow, Gosstroyizdat, 1960. 231 p. Errata slip inserted.

Scientific Ed.: K.V. Mikhaylov, Candidate of Technical Sciences; Ed. of Publish-
ing House: N.O. Yegorova; Tech. Ed.: L.M. Osenko.

PURPOSE: This book is intended for engineers, technicians, and foremen engaged
in the design and production of sectional-concrete and reinforced-concrete
structures.

COVERAGE: The authors examine the forms used in manufacturing various sectional-
concrete, prestressed-concrete, and reinforced-concrete structures. The method
for estimating cost per 1 cubic meter of finished structures is discussed, and
recommendations for the design, construction, lubrication, and application of
complete formworks are given. The book includes examples of designs and

Card 1/5

Forms for the Production of Sectional-Concrete (Cont.) SOV/5068

constructions of forms as well as graphs and tables used for economic estimates. Attention is also given to the proper selection of forms. The authors have drawn from materials obtained during 1955-1958 by the experimental design office of the Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov (All-Union Scientific Research Institute of Hard Alloys), and other leading design and scientific research institutes and plants dealing with metal construction and sectional reinforced concrete. Ch. X was written by I.T. Antonova, Engineer. K.G. Kuz'min, Engineer, wrote the remaining chapters. No personalities are mentioned. There are 63 references: 58 Soviet, and 5 English.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Classification of Forms	6
Ch. II. Basic Requirements for the Construction of Forms	14
Ch. III. Economic Grounds for Selecting Types of Forms	22
Ch. IV. Metal Forms	38

Card ~~2/3~~

KUZ'MIN, Konstantin Gavrilovich, inzh.; ANTONOVA, Irina Tikhonovna, inzh.;
MIKHAYLOV, K.V., kand.tekhn.nauk, nauchnyy red.; YEGOROVA, N.O.,
red.izd-va; OSENKO, L.M., tekhn.red.

[Molds for making precast plain and reinforced concrete construction elements] Formy dlia izgotovleniia sbornnykh betonnykh i zhelezobetonnykh konstruksii. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 231 p.

(MIRA 14:1)

(Precast concrete)

(Concrete construction--Formwork)

KUZ'MIN, K.G., inzh.

Ways of prestressing cylindrical reinforced-concrete tanks.
Bet. i zhel.-bet. no 5:201-204 My '61. (MIRA 14:6)
(Tanks) *
(Reinforced concrete construction)

117 AND 118 INDEX		119 AND 120 INDEX	
<p>CA KUZ'MIN, K. (1)</p>		<p>2</p>	
<p>PROCESSES AND PROPERTIES INDEX</p> <p>Recrystallization of solid solutions of Sn and Al in Cu. V. I. Iversanova, K. Kuz'min and V. Milyukov. <i>J. Exptl. Theoret. Phys. (U. S. S. R.)</i> 13, No. 6, 215-21 (1943).—Curves are given for the temp. of the beginning and ending of the crystals of Sn-Cu and Al-Cu alloys as functions of the composition, and degrees of deformation of the alloys. In both cases the curves show two rather flat maxima as a function of the composition. These are at 1 and 10 atomic % Sn approximately for the Sn-Cu alloy. The Al-Cu alloy shows a max. at 4% a min. at 7-11% after which the curve again rises to more than 20 atomic %. These maxima are more marked the greater the degree of deformation. The curve for the time of initial recrystallization as a function of the composition shows similar but more pronounced maxima. X-ray photographs were made and the change in width of the lines followed during the annealing process. In the case of the 10% Al alloy the width of the lines is greater than normal up to nearly complete recrystallization. The presence of the maxima on the recrystallization curve for the limiting composition of the solid soln. and the changes in the widths of the x-ray lines during the quenching process agree well with the theoretical conceptions advanced by S. T. Koshchewitski (preceding abstract). F. H. Rathmann</p>			
<p>ASB-614 METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>FROM SYMBOLIC</p>		<p>USING NOMENCLATURE</p>	
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KUZ'MIN, K.I.
CA

Dipole moments of some tertiary arseses. K. I. Kuz'min and G. I. Kamal (S. M. Khov Chem.-Technol. Inst., Khabarovsk). *Doklady Akad. Nauk S.S.S.R.* 73, 700-10 (1960).—From dielectric const. measurements in dil. soln. in CCl₄ at 20°, the dipole moments $\mu = 0.0127 \times 10^{-18}$ esu cm. $\sqrt{(P_e - MR_e)/T}$, with the mol. polarization P_e obtained by graphic extrapolation, the electronic polarization taken equal to the mol. refraction, and the at. polarization not taken into account, were detd. to: Et₃As 1.04; Pr₃As 1.00; Bu₃As 0.92; (*p*-MeC₆H₄)₃As 1.74; EtBu(*p*-MeC₆H₄)As (I) 1.29. The bond moment As—C (aromatic), calcd. from μ of Ph₃As, is 0.60, with the angle C—As—C = 96°, as detd. by electron diffraction. The vector sum of the bond moments for (*p*-MeC₆H₄)₃As, with the As—C bond moments pointing from the ring to the As, is calcd. to 1.68, i.e. close to the exptl. 1.74. The calcd. μ for I, 1.21, is also close to the exptl. 1.29. The new compd. I, synthesized from BuMgBr and Et(*p*-MeC₆H₄)AsI in abs. ether, has the consts. b_p 152-4°, d_p 1.0991, n_D^{20} 1.5300. N. Thon

KAMAY, G.I.; KUZ'MIN, K.I.

Producing some esters of arsenic acid. Trudy KHITI no.17:7-10
'52 [publ. '53]. (MIRA 12:11)

(Arsenic acid)

Koz'min, K.I.

Parachore and structure of some organic derivatives of arsenic

by K. I. Koz'min and G. M. Koshlapov

Submitted to the Journal of Organic Chemistry, USSR Academy of Sciences

1974

The following data are given for the compounds:

1. $C_2H_5AsH_3$ (b.p. 40°C, d₄²⁰ 0.750, n_D²⁰ 1.400, n_D²⁵ 1.395, n_D³⁰ 1.390, n_D³⁵ 1.385, n_D⁴⁰ 1.380, n_D⁴⁵ 1.375, n_D⁵⁰ 1.370, n_D⁵⁵ 1.365, n_D⁶⁰ 1.360, n_D⁶⁵ 1.355, n_D⁷⁰ 1.350, n_D⁷⁵ 1.345, n_D⁸⁰ 1.340, n_D⁸⁵ 1.335, n_D⁹⁰ 1.330, n_D⁹⁵ 1.325, n_D¹⁰⁰ 1.320, n_D¹⁰⁵ 1.315, n_D¹¹⁰ 1.310, n_D¹¹⁵ 1.305, n_D¹²⁰ 1.300, n_D¹²⁵ 1.295, n_D¹³⁰ 1.290, n_D¹³⁵ 1.285, n_D¹⁴⁰ 1.280, n_D¹⁴⁵ 1.275, n_D¹⁵⁰ 1.270, n_D¹⁵⁵ 1.265, n_D¹⁶⁰ 1.260, n_D¹⁶⁵ 1.255, n_D¹⁷⁰ 1.250, n_D¹⁷⁵ 1.245, n_D¹⁸⁰ 1.240, n_D¹⁸⁵ 1.235, n_D¹⁹⁰ 1.230, n_D¹⁹⁵ 1.225, n_D²⁰⁰ 1.220, n_D²⁰⁵ 1.215, n_D²¹⁰ 1.210, n_D²¹⁵ 1.205, n_D²²⁰ 1.200, n_D²²⁵ 1.195, n_D²³⁰ 1.190, n_D²³⁵ 1.185, n_D²⁴⁰ 1.180, n_D²⁴⁵ 1.175, n_D²⁵⁰ 1.170, n_D²⁵⁵ 1.165, n_D²⁶⁰ 1.160, n_D²⁶⁵ 1.155, n_D²⁷⁰ 1.150, n_D²⁷⁵ 1.145, n_D²⁸⁰ 1.140, n_D²⁸⁵ 1.135, n_D²⁹⁰ 1.130, n_D²⁹⁵ 1.125, n_D³⁰⁰ 1.120, n_D³⁰⁵ 1.115, n_D³¹⁰ 1.110, n_D³¹⁵ 1.105, n_D³²⁰ 1.100, n_D³²⁵ 1.095, n_D³³⁰ 1.090, n_D³³⁵ 1.085, n_D³⁴⁰ 1.080, n_D³⁴⁵ 1.075, n_D³⁵⁰ 1.070, n_D³⁵⁵ 1.065, n_D³⁶⁰ 1.060, n_D³⁶⁵ 1.055, n_D³⁷⁰ 1.050, n_D³⁷⁵ 1.045, n_D³⁸⁰ 1.040, n_D³⁸⁵ 1.035, n_D³⁹⁰ 1.030, n_D³⁹⁵ 1.025, n_D⁴⁰⁰ 1.020, n_D⁴⁰⁵ 1.015, n_D⁴¹⁰ 1.010, n_D⁴¹⁵ 1.005, n_D⁴²⁰ 1.000, n_D⁴²⁵ 0.995, n_D⁴³⁰ 0.990, n_D⁴³⁵ 0.985, n_D⁴⁴⁰ 0.980, n_D⁴⁴⁵ 0.975, n_D⁴⁵⁰ 0.970, n_D⁴⁵⁵ 0.965, n_D⁴⁶⁰ 0.960, n_D⁴⁶⁵ 0.955, n_D⁴⁷⁰ 0.950, n_D⁴⁷⁵ 0.945, n_D⁴⁸⁰ 0.940, n_D⁴⁸⁵ 0.935, n_D⁴⁹⁰ 0.930, n_D⁴⁹⁵ 0.925, n_D⁵⁰⁰ 0.920, n_D⁵⁰⁵ 0.915, n_D⁵¹⁰ 0.910, n_D⁵¹⁵ 0.905, n_D⁵²⁰ 0.900, n_D⁵²⁵ 0.895, n_D⁵³⁰ 0.890, n_D⁵³⁵ 0.885, n_D⁵⁴⁰ 0.880, n_D⁵⁴⁵ 0.875, n_D⁵⁵⁰ 0.870, n_D⁵⁵⁵ 0.865, n_D⁵⁶⁰ 0.860, n_D⁵⁶⁵ 0.855, n_D⁵⁷⁰ 0.850, n_D⁵⁷⁵ 0.845, n_D⁵⁸⁰ 0.840, n_D⁵⁸⁵ 0.835, n_D⁵⁹⁰ 0.830, n_D⁵⁹⁵ 0.825, n_D⁶⁰⁰ 0.820, n_D⁶⁰⁵ 0.815, n_D⁶¹⁰ 0.810, n_D⁶¹⁵ 0.805, n_D⁶²⁰ 0.800, n_D⁶²⁵ 0.795, n_D⁶³⁰ 0.790, n_D⁶³⁵ 0.785, n_D⁶⁴⁰ 0.780, n_D⁶⁴⁵ 0.775, n_D⁶⁵⁰ 0.770, n_D⁶⁵⁵ 0.765, n_D⁶⁶⁰ 0.760, n_D⁶⁶⁵ 0.755, n_D⁶⁷⁰ 0.750, n_D⁶⁷⁵ 0.745, n_D⁶⁸⁰ 0.740, n_D⁶⁸⁵ 0.735, n_D⁶⁹⁰ 0.730, n_D⁶⁹⁵ 0.725, n_D⁷⁰⁰ 0.720, n_D⁷⁰⁵ 0.715, n_D⁷¹⁰ 0.710, n_D⁷¹⁵ 0.705, n_D⁷²⁰ 0.700, n_D⁷²⁵ 0.695, n_D⁷³⁰ 0.690, n_D⁷³⁵ 0.685, n_D⁷⁴⁰ 0.680, n_D⁷⁴⁵ 0.675, n_D⁷⁵⁰ 0.670, n_D⁷⁵⁵ 0.665, n_D⁷⁶⁰ 0.660, n_D⁷⁶⁵ 0.655, n_D⁷⁷⁰ 0.650, n_D⁷⁷⁵ 0.645, n_D⁷⁸⁰ 0.640, n_D⁷⁸⁵ 0.635, n_D⁷⁹⁰ 0.630, n_D⁷⁹⁵ 0.625, n_D⁸⁰⁰ 0.620, n_D⁸⁰⁵ 0.615, n_D⁸¹⁰ 0.610, n_D⁸¹⁵ 0.605, n_D⁸²⁰ 0.600, n_D⁸²⁵ 0.595, n_D⁸³⁰ 0.590, n_D⁸³⁵ 0.585, n_D⁸⁴⁰ 0.580, n_D⁸⁴⁵ 0.575, n_D⁸⁵⁰ 0.570, n_D⁸⁵⁵ 0.565, n_D⁸⁶⁰ 0.560, n_D⁸⁶⁵ 0.555, n_D⁸⁷⁰ 0.550, n_D⁸⁷⁵ 0.545, n_D⁸⁸⁰ 0.540, n_D⁸⁸⁵ 0.535, n_D⁸⁹⁰ 0.530, n_D⁸⁹⁵ 0.525, n_D⁹⁰⁰ 0.520, n_D⁹⁰⁵ 0.515, n_D⁹¹⁰ 0.510, n_D⁹¹⁵ 0.505, n_D⁹²⁰ 0.500, n_D⁹²⁵ 0.495, n_D⁹³⁰ 0.490, n_D⁹³⁵ 0.485, n_D⁹⁴⁰ 0.480, n_D⁹⁴⁵ 0.475, n_D⁹⁵⁰ 0.470, n_D⁹⁵⁵ 0.465, n_D⁹⁶⁰ 0.460, n_D⁹⁶⁵ 0.455, n_D⁹⁷⁰ 0.450, n_D⁹⁷⁵ 0.445, n_D⁹⁸⁰ 0.440, n_D⁹⁸⁵ 0.435, n_D⁹⁹⁰ 0.430, n_D⁹⁹⁵ 0.425, n_D¹⁰⁰⁰ 0.420, n_D¹⁰⁰⁵ 0.415, n_D¹⁰¹⁰ 0.410, n_D¹⁰¹⁵ 0.405, n_D¹⁰²⁰ 0.400, n_D¹⁰²⁵ 0.395, n_D¹⁰³⁰ 0.390, n_D¹⁰³⁵ 0.385, n_D¹⁰⁴⁰ 0.380, n_D¹⁰⁴⁵ 0.375, n_D¹⁰⁵⁰ 0.370, n_D¹⁰⁵⁵ 0.365, n_D¹⁰⁶⁰ 0.360, n_D¹⁰⁶⁵ 0.355, n_D¹⁰⁷⁰ 0.350, n_D¹⁰⁷⁵ 0.345, n_D¹⁰⁸⁰ 0.340, n_D¹⁰⁸⁵ 0.335, n_D¹⁰⁹⁰ 0.330, n_D¹⁰⁹⁵ 0.325, n_D¹¹⁰⁰ 0.320, n_D¹¹⁰⁵ 0.315, n_D¹¹¹⁰ 0.310, n_D¹¹¹⁵ 0.305, n_D¹¹²⁰ 0.300, n_D¹¹²⁵ 0.295, n_D¹¹³⁰ 0.290, n_D¹¹³⁵ 0.285, n_D¹¹⁴⁰ 0.280, n_D¹¹⁴⁵ 0.275, n_D¹¹⁵⁰ 0.270, n_D¹¹⁵⁵ 0.265, n_D¹¹⁶⁰ 0.260, n_D¹¹⁶⁵ 0.255, n_D¹¹⁷⁰ 0.250, n_D¹¹⁷⁵ 0.245, n_D¹¹⁸⁰ 0.240, n_D¹¹⁸⁵ 0.235, n_D¹¹⁹⁰ 0.230, n_D¹¹⁹⁵ 0.225, n_D¹²⁰⁰ 0.220, n_D¹²⁰⁵ 0.215, n_D¹²¹⁰ 0.210, n_D¹²¹⁵ 0.205, n_D¹²²⁰ 0.200, n_D¹²²⁵ 0.195, n_D¹²³⁰ 0.190, n_D¹²³⁵ 0.185, n_D¹²⁴⁰ 0.180, n_D¹²⁴⁵ 0.175, n_D¹²⁵⁰ 0.170, n_D¹²⁵⁵ 0.165, n_D¹²⁶⁰ 0.160, n_D¹²⁶⁵ 0.155, n_D¹²⁷⁰ 0.150, n_D¹²⁷⁵ 0.145, n_D¹²⁸⁰ 0.140, n_D¹²⁸⁵ 0.135, n_D¹²⁹⁰ 0.130, n_D¹²⁹⁵ 0.125, n_D¹³⁰⁰ 0.120, n_D¹³⁰⁵ 0.115, n_D¹³¹⁰ 0.110, n_D¹³¹⁵ 0.105, n_D¹³²⁰ 0.100, n_D¹³²⁵ 0.095, n_D¹³³⁰ 0.090, n_D¹³³⁵ 0.085, n_D¹³⁴⁰ 0.080, n_D¹³⁴⁵ 0.075, n_D¹³⁵⁰ 0.070, n_D¹³⁵⁵ 0.065, n_D¹³⁶⁰ 0.060, n_D¹³⁶⁵ 0.055, n_D¹³⁷⁰ 0.050, n_D¹³⁷⁵ 0.045, n_D¹³⁸⁰ 0.040, n_D¹³⁸⁵ 0.035, n_D¹³⁹⁰ 0.030, n_D¹³⁹⁵ 0.025, n_D¹⁴⁰⁰ 0.020, n_D¹⁴⁰⁵ 0.015, n_D¹⁴¹⁰ 0.010, n_D¹⁴¹⁵ 0.005, n_D¹⁴²⁰ 0.000, n_D¹⁴²⁵ -0.005, n_D¹⁴³⁰ -0.010, n_D¹⁴³⁵ -0.015, n_D¹⁴⁴⁰ -0.020, n_D¹⁴⁴⁵ -0.025, n_D¹⁴⁵⁰ -0.030, n_D¹⁴⁵⁵ -0.035, n_D¹⁴⁶⁰ -0.040, n_D¹⁴⁶⁵ -0.045, n_D¹⁴⁷⁰ -0.050, n_D¹⁴⁷⁵ -0.055, n_D¹⁴⁸⁰ -0.060, n_D¹⁴⁸⁵ -0.065, n_D¹⁴⁹⁰ -0.070, n_D¹⁴⁹⁵ -0.075, n_D¹⁵⁰⁰ -0.080, n_D¹⁵⁰⁵ -0.085, n_D¹⁵¹⁰ -0.090, n_D¹⁵¹⁵ -0.095, n_D¹⁵²⁰ -0.100, n_D¹⁵²⁵ -0.105, n_D¹⁵³⁰ -0.110, n_D¹⁵³⁵ -0.115, n_D¹⁵⁴⁰ -0.120, n_D¹⁵⁴⁵ -0.125, n_D¹⁵⁵⁰ -0.130, n_D¹⁵⁵⁵ -0.135, n_D¹⁵⁶⁰ -0.140, n_D¹⁵⁶⁵ -0.145, n_D¹⁵⁷⁰ -0.150, n_D¹⁵⁷⁵ -0.155, n_D¹⁵⁸⁰ -0.160, n_D¹⁵⁸⁵ -0.165, n_D¹⁵⁹⁰ -0.170, n_D¹⁵⁹⁵ -0.175, n_D¹⁶⁰⁰ -0.180, n_D¹⁶⁰⁵ -0.185, n_D¹⁶¹⁰ -0.190, n_D¹⁶¹⁵ -0.195, n_D¹⁶²⁰ -0.200, n_D¹⁶²⁵ -0.205, n_D¹⁶³⁰ -0.210, n_D¹⁶³⁵ -0.215, n_D¹⁶⁴⁰ -0.220, n_D¹⁶⁴⁵ -0.225, n_D¹⁶⁵⁰ -0.230, n_D¹⁶⁵⁵ -0.235, n_D¹⁶⁶⁰ -0.240, n_D¹⁶⁶⁵ -0.245, n_D¹⁶⁷⁰ -0.250, n_D¹⁶⁷⁵ -0.255, n_D¹⁶⁸⁰ -0.260, n_D¹⁶⁸⁵ -0.265, n_D¹⁶⁹⁰ -0.270, n_D¹⁶⁹⁵ -0.275, n_D¹⁷⁰⁰ -0.280, n_D¹⁷⁰⁵ -0.285, n_D¹⁷¹⁰ -0.290, n_D¹⁷¹⁵ -0.295, n_D¹⁷²⁰ -0.300, n_D¹⁷²⁵ -0.305, n_D¹⁷³⁰ -0.310, n_D¹⁷³⁵ -0.315, n_D¹⁷⁴⁰ -0.320, n_D¹⁷⁴⁵ -0.325, n_D¹⁷⁵⁰ -0.330, n_D¹⁷⁵⁵ -0.335, n_D¹⁷⁶⁰ -0.340, n_D¹⁷⁶⁵ -0.345, n_D¹⁷⁷⁰ -0.350, n_D¹⁷⁷⁵ -0.355, n_D¹⁷⁸⁰ -0.360, n_D¹⁷⁸⁵ -0.365, n_D¹⁷⁹⁰ -0.370, n_D¹⁷⁹⁵ -0.375, n_D¹⁸⁰⁰ -0.380, n_D¹⁸⁰⁵ -0.385, n_D¹⁸¹⁰ -0.390, n_D¹⁸¹⁵ -0.395, n_D¹⁸²⁰ -0.400, n_D¹⁸²⁵ -0.405, n_D¹⁸³⁰ -0.410, n_D¹⁸³⁵ -0.415, n_D¹⁸⁴⁰ -0.420, n_D¹⁸⁴⁵ -0.425, n_D¹⁸⁵⁰ -0.430, n_D¹⁸⁵⁵ -0.435, n_D¹⁸⁶⁰ -0.440, n_D¹⁸⁶⁵ -0.445, n_D¹⁸⁷⁰ -0.450, n_D¹⁸⁷⁵ -0.455, n_D¹⁸⁸⁰ -0.460, n_D¹⁸⁸⁵ -0.465, n_D¹⁸⁹⁰ -0.470, n_D¹⁸⁹⁵ -0.475, n_D¹⁹⁰⁰ -0.480, n_D¹⁹⁰⁵ -0.485, n_D¹⁹¹⁰ -0.490, n_D¹⁹¹⁵ -0.495, n_D¹⁹²⁰ -0.500, n_D¹⁹²⁵ -0.505, n_D¹⁹³⁰ -0.510, n_D¹⁹³⁵ -0.515, n_D¹⁹⁴⁰ -0.520, n_D¹⁹⁴⁵ -0.525, n_D¹⁹⁵⁰ -0.530, n_D¹⁹⁵⁵ -0.535, n_D¹⁹⁶⁰ -0.540, n_D¹⁹⁶⁵ -0.545, n_D¹⁹⁷⁰ -0.550, n_D¹⁹⁷⁵ -0.555, n_D¹⁹⁸⁰ -0.560, n_D¹⁹⁸⁵ -0.565, n_D¹⁹⁹⁰ -0.570, n_D¹⁹⁹⁵ -0.575, n_D²⁰⁰⁰ -0.580, n_D²⁰⁰⁵ -0.585, n_D²⁰¹⁰ -0.590, n_D²⁰¹⁵ -0.595, n_D²⁰²⁰ -0.600, n_D²⁰²⁵ -0.605, n_D²⁰³⁰ -0.610, n_D²⁰³⁵ -0.615, n_D²⁰⁴⁰ -0.620, n_D²⁰⁴⁵ -0.625, n_D²⁰⁵⁰ -0.630, n_D²⁰⁵⁵ -0.635, n_D²⁰⁶⁰ -0.640, n_D²⁰⁶⁵ -0.645, n_D²⁰⁷⁰ -0.650, n_D²⁰⁷⁵ -0.655, n_D²⁰⁸⁰ -0.660, n_D²⁰⁸⁵ -0.665, n_D²⁰⁹⁰ -0.670, n_D²⁰⁹⁵ -0.675, n_D²¹⁰⁰ -0.680, n_D²¹⁰⁵ -0.685, n_D²¹¹⁰ -0.690, n_D²¹¹⁵ -0.695, n_D²¹²⁰ -0.700, n_D²¹²⁵ -0.705, n_D²¹³⁰ -0.710, n_D²¹³⁵ -0.715, n_D²¹⁴⁰ -0.720, n_D²¹⁴⁵ -0.725, n_D²¹⁵⁰ -0.730, n_D²¹⁵⁵ -0.735, n_D²¹⁶⁰ -0.740, n_D²¹⁶⁵ -0.745, n_D²¹⁷⁰ -0.750, n_D²¹⁷⁵ -0.755, n_D²¹⁸⁰ -0.760, n_D²¹⁸⁵ -0.765, n_D²¹⁹⁰ -0.770, n_D²¹⁹⁵ -0.775, n_D²²⁰⁰ -0.780, n_D²²⁰⁵ -0.785, n_D²²¹⁰ -0.790, n_D²²¹⁵ -0.795, n_D²²²⁰ -0.800, n_D²²²⁵ -0.805, n_D²²³⁰ -0.810, n_D²²³⁵ -0.815, n_D²²⁴⁰ -0.820, n_D²²⁴⁵ -0.825, n_D²²⁵⁰ -0.830, n_D²²⁵⁵ -0.835, n_D²²⁶⁰ -0.840, n_D²²⁶⁵ -0.845, n_D²²⁷⁰ -0.850, n_D²²⁷⁵ -0.855, n_D²²⁸⁰ -0.860, n_D²²⁸⁵ -0.865, n_D²²⁹⁰ -0.870, n_D²²⁹⁵ -0.875, n_D²³⁰⁰ -0.880, n_D²³⁰⁵ -0.885, n_D²³¹⁰ -0.890, n_D²³¹⁵ -0.895, n_D²³²⁰ -0.900, n_D²³²⁵ -0.905, n_D²³³⁰ -0.910, n_D²³³⁵ -0.915, n_D²³⁴⁰ -0.920, n_D²³⁴⁵ -0.925, n_D²³⁵⁰ -0.930, n_D²³⁵⁵ -0.935, n_D²³⁶⁰ -0.940, n_D²³⁶⁵ -0.945, n_D²³⁷⁰ -0.950, n_D²³⁷⁵ -0.955, n_D²³⁸⁰ -0.960, n_D²³⁸⁵ -0.965, n_D²³⁹⁰ -0.970, n_D²³⁹⁵ -0.975, n_D²⁴⁰⁰ -0.980, n_D²⁴⁰⁵ -0.985, n_D²⁴¹⁰ -0.990, n_D²⁴¹⁵ -0.995, n_D²⁴²⁰ -1.000, n_D²⁴²⁵ -1.005, n_D²⁴³⁰ -1.010, n_D²⁴³⁵ -1.015, n_D²⁴⁴⁰ -1.020, n_D²⁴⁴⁵ -1.025, n_D²⁴⁵⁰ -1.030, n_D²⁴⁵⁵ -1.035, n_D²⁴⁶⁰ -1.040, n_D²⁴⁶⁵ -1.045, n_D²⁴⁷⁰ -1.050, n_D²⁴⁷⁵ -1.055, n_D²⁴⁸⁰ -1.060, n_D²⁴⁸⁵ -1.065, n_D²⁴⁹⁰ -1.070, n_D²⁴⁹⁵ -1.075, n_D²⁵⁰⁰ -1.080, n_D²⁵⁰⁵ -1.085, n_D²⁵¹⁰ -1.090, n_D²⁵¹⁵ -1.095, n_D²⁵²⁰ -1.100, n_D²⁵²⁵ -1.105, n_D²⁵³⁰ -1.110, n_D²⁵³⁵ -1.115, n_D²⁵⁴⁰ -1.120, n_D²⁵⁴⁵ -1.125, n_D²⁵⁵⁰ -1.130, n_D²⁵⁵⁵ -1.135, n_D²⁵⁶⁰ -1.140, n_D²⁵⁶⁵ -1.145, n_D²⁵⁷⁰ -1.150, n_D²⁵⁷⁵ -1.155, n_D²⁵⁸⁰ -1.160, n_D²⁵⁸⁵ -1.165, n_D²⁵⁹⁰ -1.170, n_D²⁵⁹⁵ -1.175, n_D²⁶⁰⁰ -1.180, n_D²⁶⁰⁵ -1.185, n_D²⁶¹⁰ -1.190, n_D²⁶¹⁵ -1.195, n_D²⁶²⁰ -1.200, n_D²⁶²⁵ -1.205, n_D²⁶³⁰ -1.210, n_D²⁶³⁵ -1.215, n_D²⁶⁴⁰ -1.220, n_D²⁶⁴⁵ -1.225, n_D²⁶⁵⁰

KAMAY, GIL'M, AND KUZ'MIN, K. I.

The Preparation of Certain Esters of Arsenic Acid

Describes a simplification of a method for preparing esters of arsenic acid previously described in the literature (Crafts, M.J., Bull. Soc. Chim. France, 1870, 94), 14, 99). (RZhKhim, No. 1, 1955) Tr. Kazansk. Khim.-Tekhnol. In-ta, No. 17, 1953, 7-10.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

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CIA-RDP86-00513R000928020

APPROVED FOR RELEASE: Monday, July 31, 2000

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Kuz'min, K. I.

USSR/Chemistry

Card 1/1 Pub. 151 - 23/36

Authors : Gil'm Kamay, and Kuz'min, K. I.

Title : The parachors of certain esters of ethylene glycol arsenous acid

Periodical : Zhur. ob. khim. 24/1, 128-130, Jan 1954

Abstract : The parachors of five esters of ethylene glycol arsenous acid were determined experimentally. The results are tabulated. Prior to the determination of the surface tension, density and index of refraction all substances were subjected to thorough distillation in vacuo. The surface tension was determined by the method of maximum pressure of the bubbles. The physical constants of the esters are described and the problem concerning the structure of such esters as well as esters of other cyclic compounds with long side-chain is briefly discussed. Seven references: 5-USA and 2-USSR (1938-1950). Tables.

Institution: The S. M. Kirov Chemical-Technological Institute, Kazan

Submitted : July 9, 1953

KUZ MIN, R. I.

The action of hydrogen sulfide on the esters of arsenous
acid S. I. Kuz'min / Gen. Chem. USSR 24 1191 (1954)
(1954) (English translation) See C. I. 49 1127

B. M. R.

USSR/ Chemistry Reaction processes

Card : 1/1 Pub. 151 - 21/35

Authors : Kuz'min, K. I.

Title : Reaction of hydrogen sulfide with arsenous acid esters

Periodical : Zhur. ob. khim. 24, Ed. 7, 1203 - 1205, July 1954

Abstract : The reaction of H_2S with arsenous acid esters was investigated to determine whether this reaction would be suitable for the derivation of thioarsenous acid esters. Results showed that the arsenous acid esters decompose easily under the effect of H_2S followed by the formation of As_2S_3 and homologous alcohol. One USA and 1 German reference.

Institution : Chemical Technological Institute, Kazan

Submitted : January 12, 1954

102 MIN, 11.1

USSR/ Organic Chemistry - Synthetic organic chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11802

Author : Kuz'min K.I.

Inst : Kazan' Chemico-Technological Institute

Title : On Interaction of Arsenic Trichloride with Pentaerythritol

Orig Pub : Tr. Kazansk. khim. tekhnol. in-ta, 1955, No 19-20, 217-219

Abstract : On reaction of AsCl_3 (I) with $\text{C}(\text{CH}_2\text{OH})_4$ (II) there is formed a bicyclic acid chloride of the spiran type $\text{CH}_2\text{OAsClOCH}_2\text{-C-CH}_2\text{OAsClOCH}_2$ (III). Due to low solubility of III in ether and CHCl_3 , no esters could be obtained from III. On reaction of III with CH_3OH and $\text{C}_5\text{H}_5\text{N}$ an ester could also not be isolated. To 13.6 g II are added 36.3 g AsCl_3 , the mixture is heated 4 hours to a boil (Evolution of HCl), solidified mass is dissolved in acetone and filtered; from filtrate are isolated 29.1 g III of MP 154° (from acetone)

Card 1/1

KUZ'MIN, K.I.

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4477

Author : Kuz'min, K.I.

Title : On Some Esters of Butylarsinous Acid.

Orig Pub : Zh. obshch. khimii, 1956, 26, No 3, 675-676

Abstract : By interaction of n-butylarsin oxide (BP 177-178°/1.5 mm; d_0^{20} 1.1170) with alcohols, in the presence of CuSO_4 and in an atmosphere of CO_2 , were prepared for the first time the following esters of n-butylarsinous acid (listing yield in %, BP in °C/mm, n_D^{20} , d_0^{20}): methyl, 40.3, 65-67/15, 1.4555, 1.1869; ethyl, 37.1, 81-83/15, 1.4495, 1.1072; n-propyl, 64.4, 104-106/12.5, 1.4515, 1.0617; χ^{20} 26.1 dyne/cm; parachor 532.6; n-butyl, 76.6, 132-134/14, 1.4540, 1.0389; n-octyl, 86.3, 193-195.6, 1.4603, 0.9777; χ^{20} 28.8 dyne/cm; parachor 925.1. The esters are readily hydrolysed by moisture of the air, rapidly oxidized; do not add sulfur on direct interaction. Atomic refraction of As calculated for these esters is, on the average, 10.42.

Card 1/1

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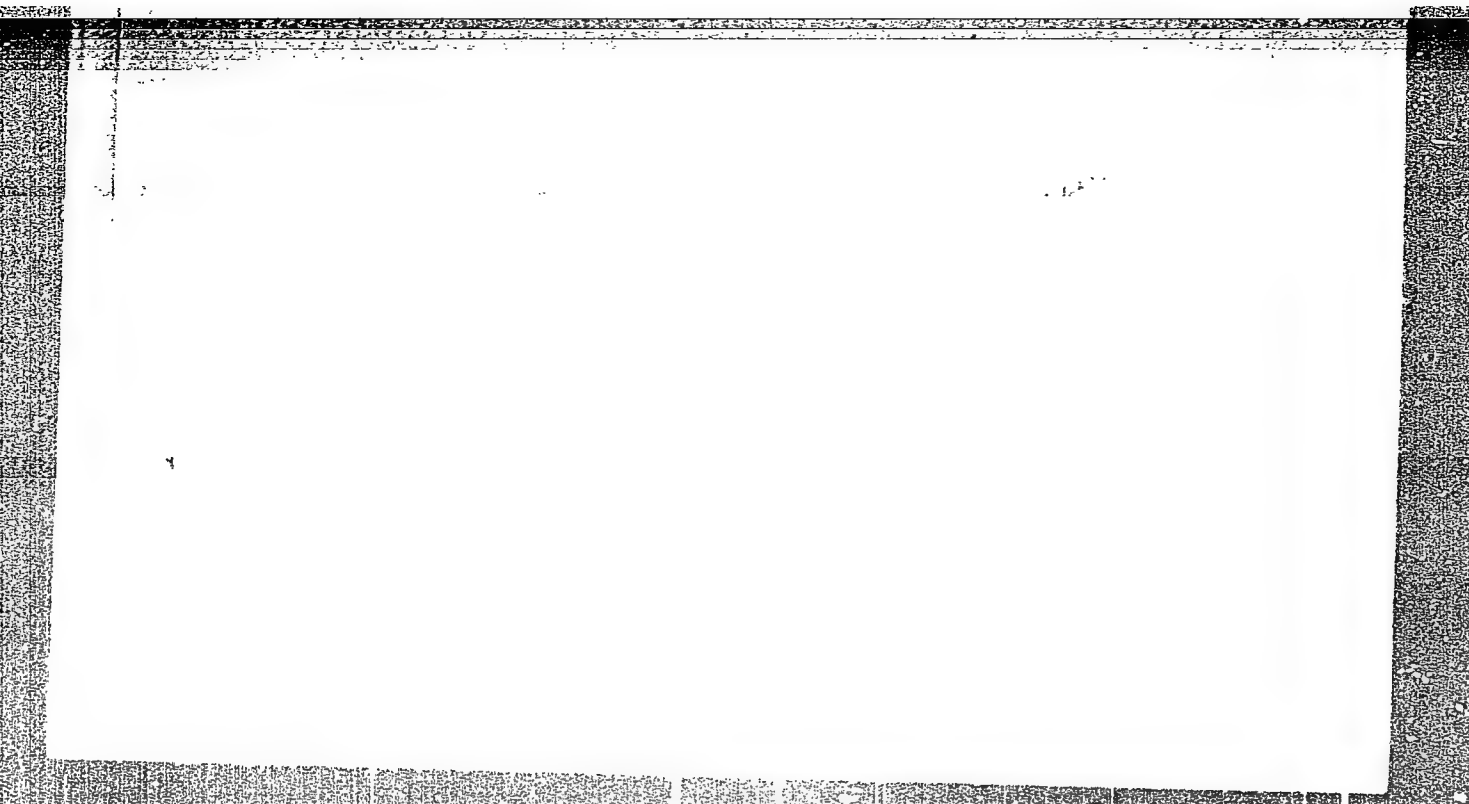
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ACC NR: AP6028904

SOURCE CODE: UR/0079/66/036/008/1478/1480

AUTHOR: Kuz'min, K. I.; Pavlova, L. A.

ORG: Kazan Chemical Technology Institute im. S. M. Kirov (Kazanskiy khimiko-tehnologicheskii institut)

TITLE: Acetylenic derivatives of arsenic

SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1478-1480

TOPIC TAGS: bisdialkylarsinoacetylene, ^{arsenic} ~~arsine derivative~~, acetylene ~~derivative~~ compound

ABSTRACT: The five previously unreported bis(dialkylarsino)acetylenes were obtained by the reaction



Composition and constants of the new compounds are given in the table.
Orig. art. has: 1 table.

[W.A. 50]

Card 1/2

UDC: 547.312+661.718.2

ACC NR: AP6028904

Formula	bp (p in mm)	Yield (in %)	n _D ²⁰	d ₄ ²⁰	MR _D Found	[α] _D ²⁰	% As	
							Found	Calc'd
(C ₁₂ H ₁₄) ₂ AsCmCAAs(C ₁₂ H ₁₄) ₂	118.5—119.5° (2)	42.5	1.5268	1.1570	91.89	12.42	42.73	43.26
(n-C ₁₁) ₂ AsCmCAAs(n-C ₁₁) ₂	159—160 (1.5)	43	1.5168	1.1151	110.45	12.46	27.10	37.27
(iso-C ₁₁) ₂ AsCmCAAs(iso-C ₁₁) ₂	134—136 (2)	30.1	1.5122	1.0286	110.00	12.24	26.90	37.27
(C ₁₁ H ₁₃) ₂ AsCmCAAs(C ₁₁ H ₁₃) ₂	190—192 (3)	17	1.5103	1.0670	129.54	12.77	22.80	22.69
(C ₁₀ H ₁₂) ₂ AsCmCAAs(C ₁₀ H ₁₂) ₂	198—201 (1.5)	18	1.4963	1.0222	148.99	12.26	20.12	20.12
Average ..						12.43		

SUB CODE: 07/ SUBM DATE: 03Jul65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

ACC NR: AP6028904

SOURCE CODE: UR/0079/66/036/008/1478/1480

AUTHOR: Kuz'min, K. I.; Pavlova, L. A.

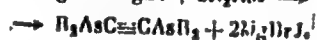
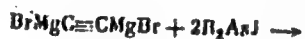
ORG: Kazan Chemical Technology Institute im. S. M. Kirov (Kazanskiy khimiko-tekhnologicheskii institut)

TITLE: Acetylenic derivatives of arsenic

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ABSTRACT: The five previously unreported bis(dialkylarsino)acetylenes were obtained by the reaction



Composition and constants of the new compounds are given in the table.
Orig. art. has: 1 table. [W.A. 50]

Card 1/2

UDC: 547.312+661.718.2

ACC NR: AP6028904

Formula	bp (p in mm)	Yield (in %)	n _D ²⁰	d ₄ ²⁰	M _r Found	[AN] _D ²⁰	% As	
							Found	Calc'd
(C ₂ H ₅) ₂ AsC≡CAs(C ₂ H ₅) ₂	118.5-119.5° (2)	42.5	1.5268	1.1570	91.89	12.42	42.75	43.26
(n-C ₄ H ₉) ₂ AsC≡CAs(n-C ₄ H ₉) ₂	159-160 (1.5)	43	1.5183	1.1151	110.45	12.46	37.10	37.27
(iso-C ₄ H ₉) ₂ AsC≡CAs(iso-C ₄ H ₉) ₂	134-136 (2)	30.1	1.5122	1.0864	110.00	12.24	26.90	27.27
(C ₂ H ₅) ₂ AsC≡CAs(C ₂ H ₅) ₂	186-188 (3)	17	1.5103	1.0810	129.34	12.77	21.80	22.69
(C ₂ H ₅) ₂ AsC≡CAs(C ₂ H ₅) ₂	198-201 (1.4)	18	1.4983	1.0222	146.96	12.28	29.18	29.18
Average ..						12.43		

SUB CODE: 07/ SUBM DATE: 03Jul65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

KUZ'MIN, K.K., inzhener, redaktor; UVAROVA, A.F., tekhnicheskiy redaktor;

[Construction of hydraulic turbines; an exchange of technical experiences] Gidroturbostroenie; obmen tekhnicheskimi opytom. Moskva, Gos.nauchno-tekhnicheskoe izd-vo mashinostroita. lit-ry, 1956. 132 p. (MLRA 9:5)

1. Syzranskiy gidroturbinnyy zavod.
(Hydraulic turbines)

SIMONOV, Ye.D., redaktor; ROTOTAYEV, P.S., redaktor; BOROVNIKOV, A.M., redaktor; BULGAKOV, M.V., redaktor; GARF, B.A., redaktor, GVOZDET-SKIY, N.A., redaktor; YERZERSKIY, Ye.M., redaktor; ZATULOVSKIY, D.M., redaktor; IVANOV, A.I., redaktor; KUZ'MIN, K.K., redaktor; NESTEROV, V.F., redaktor; SUSLOV, A.D., redaktor; TOSHINSKIY, G.K., redaktor; YUKHIN, I.V., redaktor; LEBEDEVA, N.G., redaktor; GOLITSYN, A.V., redaktor; KOSHNEVA, S.M., tekhnicheskii redaktor

[Conquered peaks; annual publication of Soviet mountaineering for 1953] Pobezhdennye vershiny; ezhegodnik sovetskogo al'pinizma god 1953. Moskva, Gos. izd-vo geograficheskoi lit-ry, 1954. 606 p. (Mountaineering--Yearbooks) (MIRA 8:7)

BERKOVA, N.M.; SIMONOV, Ye.D., red.; GIPPENREYTER, Ye.B., red.;
KIZEL', V.A., red.; KUZ'MIN, K.K., red.; LETAVET, A.A., red.;
POLYAKOV, A.I., red. p. ROTOTAYEV, P.S., red.; FILIMONOV, L.N.,
red.; KHRGIAN, A.Kh., red.; YUKHIN, I.V., red.; KONOVALYUK,
I.K., mlad. red.; GOLITSYN, A.V., red. kart; ARDANOVA, N.P.
tekhn. red.

[Conquered summits; Soviet alpinism between 1958 and 1961] Po-
bezhdennye vershiny; sbornik sovetskogo al'pinizma, 1958-1961.
Moskva, Geografiz, 1963. 406 p. (MIRA 16:6)
(Mountaineering)

KUZ'MIN, K.M., inzh., red.; MONITS, A.P., red. izd-va; MEDVEDEV, L.Ya.,
tekh. red.

[Unified standards for planning and survey work paid by a
piece-rate] Edinye normy vyrabotki na proektnye i izyskatel'skie
raboty, oplachivaemye adel'no. Moskva, Gos. izd-vo lit-ry po
stroit., arkh. i stroit. materialam. Pt. 1, vol. 1. [Survey work
for the construction industry] Izyskatel'skie raboty dlia stroi-
tel'stva. 1958. 462 p. (MIRA 12:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva.

(Surveying)

KUZ'MIN, K.N., aggronom

Initiative of the Toguchin agronomists. Zemledelie 26
no.1:76-77 Ja'64. (MIRA 17:5)

1. Zaveduyushchiy agrokhimicheskoy laboratoriyev na
obshchestvennykh nachalakh, Toguchinskaya konoplevodcheskaya
stantsiya Novosibirskoy oblasti.

KUZ'MIN, K.P.; SELIVANOV, V.V.

Rare case of subluxation of the scaphoid bone of the foot. Ortop.
travm. i protez. 20 no.2:57-58 F '59. (MIRA 12:12)
(FOOT, disloc.
subluxation of scaphoid bone (Rus))

KUZ'MIN, K.P. (Ostrov)

Case of thoracoabdominal wound. Kaz.med.zhur. no.5:112 S-0 '60.
(MIRA 13:11)

(VISCERA--WOUNDS AND INJURIES)

KUZ'MINA, I.M.; KUZ'MIN, K.P.

Thrombosis of aneurysmal dilation of the orifice of the vena
saphena magna simulating strangulated femoral hernia. Vest.khir.
no.5:136-137 '61. (MIRA 15:1)

1. Iz khirurgicheskogo otdeleniya (zav. - I.M. Kuz'mina) Ostrov-
skoy mezhrayonnoy bol'nitsy Pakovskoy oblasti. Adres avtorov:
Pakovskaya oblast', gor. Ostrov, mezhrayonnaya bol'nitsa.
(FEMUR--HERNIA) (SAPHENOUS VEINS--DISEASES) (THROMBOSIS)